

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/012563

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04Q7/36 H04B7/005

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04Q H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

11 February 2005

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18/02/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X  A	<p>US 5 579 373 A (JANG BU-KWAN) 26 November 1996 (1996-11-26)</p> <p>abstract figures 2,3,7,8 column 1, line 1 - line 13 column 2, line 58 - line 65 column 6, line 12 - line 51 column 6, line 66 - column 7, line 37 column 8, line 37 - line 41 column 9, line 3 - line 11</p>	<p>1,6,7,9, 14,15, 29, 33-35, 39,40,43 2-5,8, 10-13, 16-28, 30-32, 36-38, 41,42,44</p>
X  A	<p>US 5 341 397 A (GUDMUNDSON BJORN) 23 August 1994 (1994-08-23)</p> <p>abstract figures 1,2 column 1, line 1 - line 14 column 2, line 41 - column 3, line 13 column 3, line 35 - line 44 column 4, line 43 - line 68 column 5, line 41 - line 50</p>	<p>1,6,7,9, 14,15, 29, 33-35, 39,40,43 2-5,8, 10-13, 16-28, 30-32, 36-38, 40-42,44</p>
A	<p>US 6 047 186 A (HAN XU ET AL) 4 April 2000 (2000-04-04) abstract column 4, line 63 - column 5, line 17 column 3, line 7 - line 63 column 1, line 1 - line 22 figures 1-3</p>	<p>1-44</p>

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5579373	A	26-11-1996	KR 9600147 B1 RU 2107994 C1	03-01-1996 27-03-1998
US 5341397	A	23-08-1994	US 5295153 A AU 3965093 A BR 9305483 A CA 2111228 A1 DE 69330855 D1 DE 69330855 T2 EP 0590135 A1 EP 0967741 A2 EP 0971489 A2 ES 2167333 T3 FI 935543 A FI 20021194 A FI 20021195 A HK 1014306 A1 JP 3267296 B2 JP 6511128 T JP 3430167 B2 JP 2002199441 A MX 9302062 A1 NZ 251793 A NZ 286502 A WO 9321699 A1 SG 47208 A1 SG 87772 A1	15-03-1994 18-11-1993 11-10-1994 28-10-1993 08-11-2001 29-05-2002 06-04-1994 29-12-1999 12-01-2000 16-05-2002 28-01-1994 19-06-2002 19-06-2002 07-06-2002 18-03-2002 08-12-1994 28-07-2003 12-07-2002 29-07-1994 28-10-1996 28-10-1996 28-10-1993 20-03-1998 16-04-2002
US 6047186	A	04-04-2000	NONE	